

Front Panel Description

STATUS: Green LED illuminates when the unit is powered. Red LED illuminates when an alarm exceeding thresholds is detected or other unit failure.

ACO: Amber LED illuminates when the Alarm Cutoff switch is *On* (switch left) indicating that the alarm relay contacts are forced to the No Alarms condition.

ACO SW: Alarm Cutoff switch controls the alarm relay circuitry. When the switch is *On* (left), the circuitry is deactivated. The ACO indicator still functions normally.

ADDRESS: This 8-position switch (Switch 1) sets the address of the unit targeted by the command from the EM8000 controller. Valid addresses are 0 through 253 with zero being the broadcast address and 253 reserved as a universal hailing frequency.

FORCE: Amber LED illuminates when the *select* switch is in either the *A* or *B* position. NMS commands will not override this switch.

A / B: Green LEDs illuminate indicating which input (*A* or *B*) is being broadcast to the ports. If both ports (*A* and *B*) have input, only the selected port's indicator illuminates.

Select: The *select* switch forces the input to either the *A* (switch left) or *B* (switch right) input. *N* (switch center) is for normal operation.

NMS BR: S2-1 and S2-2 set the NMS bit rate. Refer to the NMS Bit Rate table below for setting information.

SUPV BR: S2-3 and S2-4 set the Supervisory port bit rate. Refer to the SUPV Bit Rate table below for setting information.

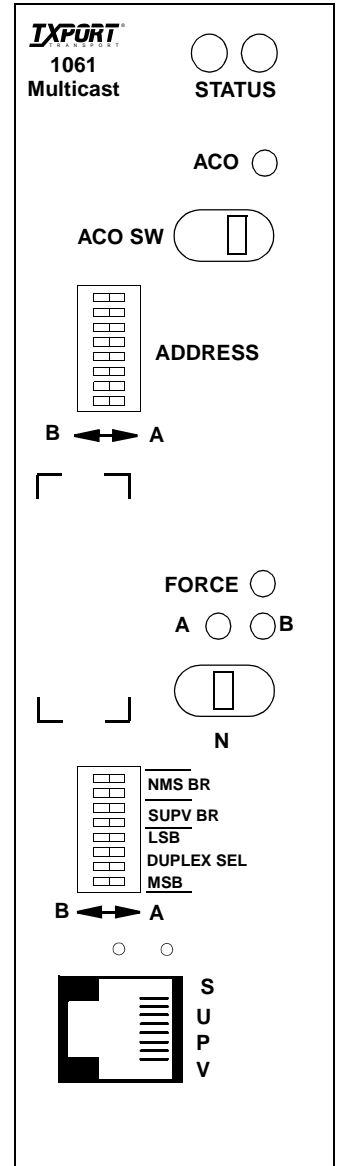
LSB: S2-5 sets the Least Significant Bit with respect to the duplex select. Refer to the Duplex Select table for setting information.

Duplex Select: S2-6 and S2-7 select the channel (1-12) that is full duplexed to the selected (*A* or *B*) input channel. No channel is selected when set to zero. The expansion settings (*A* EXPD, *B* EXPD, and *A/B* EXPD) full duplex back to their respective T1 input lines. For example, the *A* EXPD setting full duplexes the return feed back to the T1 *A* input line; the *B* EXPD setting full duplexes the return feed back to the T1 *B* input line; and the *A/B* EXPD setting full duplexes the return feed back to the respective T1 *A* and T1 *B* input lines.

MSB: S2-8 sets the Most Significant Bit with respect to the duplex select. Refer to the Duplex Select table for setting information.

Activity Indicators: The two red activity indicators allow you to identify transmission flow in the unit. The left light indicates supervisory port transmission. The right light indicates NMS bus transmission.

SUPV: The supervisory port allow you to configure the unit's software through a VT100 connection.



Duplex Select

	S2-5	S2-6	S2-7	S2-8
0	B	B	B	B
1	A	B	B	B
2	B	A	B	B
3	A	A	B	B
4	B	B	A	B
5	A	B	A	B
6	B	A	A	B
7	A	A	A	B
8	B	B	B	A
9	A	B	B	A
10	B	A	B	A
11	A	A	B	A
12	B	B	A	A
A Expd	A	B	A	A
B Expd	B	A	A	A
A/B Expd	A	A	A	A

NMS Bit Rate

NMS BR	S2-1	S2-2
19.2 kbps	B	B
9.6 kbps	A	A
2.4 kbps	B	A
1.2 kbps	A	B

SUPV Bit Rate

Bit Rate	S2-3	S2-4
19.2 kbps	B	B
9.6 kbps	A	A
2.4 kbps	B	A
1.2 kbps	A	B

Input/Output

Input (A/B): Impedance terminated 100 Ω (± 2%)
Underterminated 1000 Ω

Ext. Alarm Inputs: Off when ≤ 3 mA,
On when > 4 mA and ≤ 20 mA

Output: Per 62411 waveform into 100 Ω

Power

DC Power: -48 VDC (±10%), 100 mA max.
2.5 Watts, 8.5 BTU max.

Connection: Terminal block

Specifications

Mechanical

Mounting: Desktop, wall, horizontal rack, vertical rack or vertical nest mount

Dimensions

Width: 1.72 in (4.37 cm)
Height: 6.8 in (17.27 cm)
Depth: 10.5 in (50.90 cm)
Weight: 4.0 lbs (1.81 kg)

Industry Standards

FCC Compliance: Part 15 Class A, Subpart B
U.S. Safety: UL 1950 Third Edition
Canadian Safety: CSA C22.2 No. 950-95

Rear Panel Description

NMS (IN/OUT): These two ports connect the chassis to the TxPORT EM8000. Within the chassis, each unit is physically connected to the next unit in a daisy chain. Each unit in the NMS chain must have a unique address, however, they all use the same NMS bit rate.

Expand (A/B): These two 8-pin modular jacks expand the *A* or *B* inputs to other 1061 units providing additional outputs. The maximum number of units is ten.

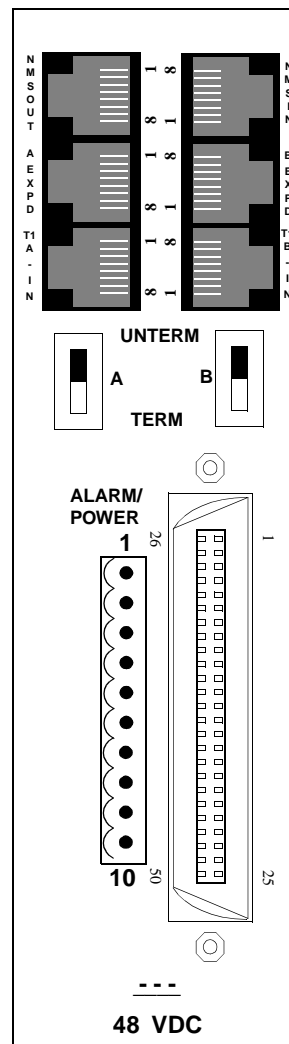
T1 IN (A/B): These two 8-pin modular jacks are used for the T1 input signal as well as the output of each input. They output AIS with no input.

Terminate/Unterminate: These two slide switches set the *A* or *B* input. *Terminate* is used when the expansion connector is not used. *Unterminate* is used when the expansion connector is daisy chained. The recessed switches can be moved with a screwdriver. The last unit in a daisy chain must be terminated.

T1 Broadcast Port: This 50-pin female connector is used for the expanded outputs of either the *A* or *B* inputs. Refer to the *T1 Multicast Port Pinout* table.

Alarm/Power: This 10-pin connector is used as a power and alarm connection. The unit requires a -48 VDC power source capable of supplying 100 mA current. The chassis ground lead is connected to pin 8. The -48 VDC lead is connected to pin 7. The return lead is connected to pin 5. The alarm connection is made on pins 6 and 9 to operate in a normally closed mode (NC - opens on alarm) or on pins 6 and 10 to operate in a normally open mode (NO - closes on alarm). The contacts are rated at 1.0 Amp AC or 1.0 Amp DC. 18 to 20 gauge wire is recommended. The external alarm connectors are unpowered, isolated inputs indicating external alarms on inputs *A* and *B*. External alarm *A* is connected on pin 1 (+) and pin 2 (-). External alarm *B* is connected on pin 3 (+) and pin 4 (-). They are 10 mA current loops and must be powered externally.

Rear Panel



Connector Pinout

Pin	NMS Out	NMS In	EXPAND	T1 IN	Alarm/Power
1	Not Used	Not Used	Data Out	Data In	External Alarm A (+)
2	Signal Gnd	Signal Gnd	Data Out	Data In	External Alarm A (-)
3	Data Out	Data Out	Not Used	Not Used	External Alarm B (+)
4	Not Used	Data In	Data In	Data Out	External Alarm B (-)
5	Signal Gnd	Signal Gnd	Data In	Data Out	48 VDC Return
6	Not Used	Not Used	Not Used	Not Used	Alarm Common
7			Chassis Gnd	Chassis Gnd	-48 VDC
8			Chassis Gnd	Chassis Gnd	Frame Ground
9					Normally Closed
10					Normally Open

T1 Multicast Port Pinout

Tip	Ring	Function
1	26	Output # 1
2	27	Input # 1
3	28	Output # 2
4	29	Input # 2
5	30	Output # 3
6	31	Input # 3
7	32	Output # 4
8	33	Input # 4
9	34	Output # 5
10	35	Input # 5
11	36	Output # 6
12	37	Input # 6
13	38	Output # 7

Tip	Ring	Function
14	39	Input # 7
15	40	Output # 8
16	41	Input # 8
17	42	Output # 9
18	43	Input # 9
19	44	Output # 10
20	45	Input # 10
21	46	Output # 11
22	47	Input # 11
23	48	Output # 12
24	49	Input # 12
25	50	Frame Gnd

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